



## Technical Data Sheet

# DOWSIL™ 2418 Release Emulsion

### **FEATURES & BENEFITS**

- Excellent for release of parts to be coated, painted, bonded or plated
- Emulsion stable to dilution and shear
- Efficient release agent (low amounts required)
- The oil-phase withstands degradation at molding temperatures and reduces build-up on the mold surfaces
- Designed for easy formulation with other release aids
- Designed for release of articles that require post-finishing

Aqueous emulsion of polyalkyl, alkarylsiloxane

### **APPLICATIONS**

DOWSIL™ 2418 Release Emulsion has been specially formulated for a wide variety of uses as a release agent. In particular, the silicone oil phase is compatible with many organic finishing agents (paints/coatings) and hence some traditional properties of silicone release agents are improved. Cleaning prior to finishing is still suggested (see "HOW TO USE"). The features and properties of DOWSIL 2418 Release Emulsion suggest the following uses:

- Molding, casting and extrusion of aluminum (or its alloys) parts

### **TYPICAL PROPERTIES**

Specification Writers: These values are not intended for use in preparing specifications.

Test*	Property	Unit	Result
0862	Nonvolatile content	%w/w	53–55
	pH		6–9
	Emulsifier type		Non-ionic, non-APEO
	Diluent		Water

\* CTM: Corporate Test Method, copies of CTMs are available on request.

### **DESCRIPTION**

DOWSIL 2418 Release Emulsion is a 50% wt. aqueous emulsion of polyalkyl, alkarylsiloxane.

### **HOW TO USE**

Wipe, brush or spray the emulsion. DOWSIL 2418 Release Emulsion is normally used in diluted form. Recommended starting dilution is 1:100 (DOWSIL 2418 Release Emulsion to water). The user is recommended to determine the best conditions of dilution and application on a test sample before using in production. A new mold may be "broken in" by applying DOWSIL 2418 Release Emulsion "as received" and running the empty mold through one or two heat cycles before actual use.

### **Post-finishing**

DOWSIL 2418 Release Emulsion shows excellent compatibility with many enamels and lacquers. Users may employ appropriate cleaning procedures to remove surface dirt, oil and grease from molded articles prior to coating with enamels or lacquers.

### **HANDLING PRECAUTIONS**

**PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE SAFETY DATA SHEET IS AVAILABLE ON**

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## **USABLE LIFE AND STORAGE**

When stored at or below 35°C in the original unopened containers, this product has a usable life of 12 months from the date of production.

## **PACKAGING INFORMATION**

This product is available in pails of 25 kg, drums of 200 kg and 1000 kg intermediate bulk containers.

## **LIMITATIONS**

This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

## **HEALTH AND ENVIRONMENTAL INFORMATION**

To support customers in their product safety needs, Dow has an extensive Product Stewardship organization and a team of product safety and regulatory compliance specialists available in each area.

For further information, please see our website, [www.consumer.dow.com](http://www.consumer.dow.com) or consult your local Dow representative.

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DOWSIL™ 2418 Release Emulsion

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